

518,103

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau

10 DEC 2004

(43) International Publication Date  
24 December 2003 (24.12.2003)

PCT

(10) International Publication Number  
**WO 03/107545 A2**

- (51) International Patent Classification<sup>7</sup>: **H04B**
- (21) International Application Number: PCT/US03/19325
- (22) International Filing Date: 18 June 2003 (18.06.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/389,474 18 June 2002 (18.06.2002) US
- (71) Applicant (*for all designated States except US*):  
**GENEGO, INC.** [US/US]; 21 Chrismar Road, Portage,  
IN 46368 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **BUGRIM, Andrei**  
[RU/US]; 227 South Berrien Street, New Buffalo, MI  
(US). **NIKOISKAYA, Tatiana** [RU/US]; 21 Chrismar  
Road, Portage, IN 46368 (US). **MARKOV, Aleksander**  
[RU/RU]; 9 Fersmana Street, Apt. 19, Moscow, 117312  
(RU).
- (74) Agents: **SAMPLES, Kenneth, H.** et al.; Fitch, Even,  
Tabin & Flannery, 120 South LaSalle Street, Suite 1600,  
Chicago, IL 60603 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG,  
US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— *without international search report and to be republished  
upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: METHODS FOR IDENTIFYING COMPOUNDS FOR TREATING DISEASE STATES

(57) **Abstract:** The process of System Reconstruction is used to integrate sequence data, clinical data, experimental data, and literature into functional models of disease pathways. System Reconstruction models serve as informational "skeletons" for integrating various types of "high throughput" data.

WO 03/107545 A2